

DETAILED ACTION

Drawings

1. The drawings filed on 12/04/2008 are acceptable and have been entered into record.

Examiner's Amendment

2. Authorization for this examiner's amendment was given in a telephone interview with Attorney, Peter A. Balnave, Registration No. 46,199 on December 17, 2008 to amend specification.

Please amend the specifications as following:

Delete the paragraph 0046 provided on 8/21/2007.

[0046] ~~In addition, the embodiments of the invention provide a program storage device readable by computer, tangibly embodying a program of instructions executable by the computer to perform a method of incrementally maintaining algebraic functions in automatic summary tables (ASTs) of at least one relational database, said method comprising: associating a work area with each algebraic function in each AST; populating variables within each work area for each algebraic function when each AST is created and when each AST is updated; maintaining each work area by adding and subtracting to and from associated variables of each work area when associated data changes in said relational database; and computing each algebraic function.~~

Further delete the references section on pages 14 and 15 of the specification which was provided on 8/19/2003.

REFERENCES

1. ~~J.A. Blakeley et al., "Efficiently Updating Materialized Views", Proceedings of SIGMOD, pp. 61-71, 1986.~~
2. ~~J. Gray et al., "Data Cube: A Relational Aggregation Operator Generalizing Group By, Cross Tab, and Sub Total," In Proceedings of IEEE International Conference on Data Engineering, pp. 152-159, 1996.~~
3. ~~A. Gupta et al, "Maintenance of Materialized Views: Problems, Techniques, and Applications," IEEE Data Engineering Bulletin, Special Issue on Materialized Views and Warehousing, 18 (2): 3-19, 1995.~~
4. ~~I. Mumick et al., "Maintenance of Data Cubes and Summary Tables in a Warehouse," In Proceedings of SIGMOD, May, 1997.~~
5. ~~T. Palpanas et al., "Selective Recomputation for Non-Distributive Aggregate Functions," In Proceedings of VLDB, 2002.~~
6. ~~K. Salem et al., 'How to Roll a Join: Asynchronous Incremental View Maintenance,' In Proceedings of SIGMOD, PP. 129-140, 2000.~~

~~7. Y. Zhuge et al., "View Maintenance in a Warehousing Environment," In Proceedings of SIGMOD, PP. 316-327, May, 1995.~~

Contact Information

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Usmaan Saeed whose telephone number is (571)272-4046. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on (571)272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2166

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SPE

US
December 17, 2008

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Supervisory Patent Examiner, Art Unit 2166